



PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Pradip Mukerji &
Suzette L. Pereira

Serial No.: 10/619,532

Filed: July 15, 2003

For: GENES INVOLVED IN
POLYKETIDE SYNTHASE
PATHWAYS AND USES THEREOF

Examiner: (not assigned)

Group Art Unit: 1645

Case No.: 7097.US.01

**CERTIFICATE OF MAILING (37 CFR
1.8 (a))**

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Date of Deposit: March 19, 2004

Kathleen Boettcher 3/19/04
Kathleen Boettcher Date

TRANSMITTAL LETTER

Assistant Commissioner for Patents
Box Non-Fee
Washington, D.C. 20231

Dear Sir:

Enclosed herewith is an Information Disclosure Statement for Pradip Mukerji & Suzette L. Pereira for GENES INVOLVED IN POLYKETIDE SYNTHASE PATHWAYS AND USES THEREOF, the specification of which was filed on July 15, 2003, and received Serial No. 10/619,532.

Also enclosed are: Form PTO 1449 (in duplicate) w/13 (thirteen) references
Return-receipt postcard

The Commissioner is hereby authorized to charge any additional Filing Fees required under 37 CFR 1.16, as well as any patent application processing fees under 37 CFR 1.17 associated with this communication for which full payment has not been tendered, to Deposit Account No. 01-0025. A duplicate copy of this sheet is enclosed.



* 2 3 4 9 2 *

23492

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Respectfully submitted,
P. Mukerji & S. L. Pereira

Cheryl L. Becker
Cheryl L. Becker
Registration No. 35,441
Attorney for Applicants



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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Mail Stop DD
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This information disclosure statement is being filed before the mailing date of a first Office Action on the merits under 37 CFR § 1.97(b).

The Applicants submit herewith Form PTO 1449 listing the references cited for this Information Disclosure Statement.

The Applicants respectfully request that the Examiner initial next to each reference listed on the enclosed Form PTO 1449 indicating that the Examiner has considered and made those references of record in this application and that a copy of the initialed Form PTO 1449 be returned to Applicants.

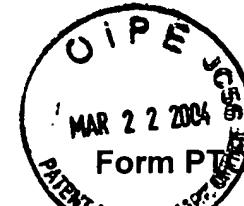
No charge is required for the submission of this Information Disclosure Statement under 37 C.F.R. § 1.97 (b). The Commissioner is hereby authorized to charge any additional filing fees required under 37 C.F.R. § 1.17 concerning this transmission, or to credit any overpayment to Deposit Account No. 01-0025.

Respectfully submitted,
P. Mukerji & S. L. Pereira

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DATE: March 19, 2004 SHEET 1 of 1

Form PTO-1449 (Modified)

PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Modified) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

7097.US.01

SERIAL NO.

10/619,532

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT

Pradip Mukerji & Suzette L. Pereira

FILING DATE

July 15, 2003

GROUP

1645

(37 CFR 1.98 (b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE
A1	6 1 4 0 4 8 6	10/31/2000	Facciotti, et al.			
A2	6 5 6 6 5 8 3	05/20/2003	Facciotti, et al.			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANSLATION
						YES
						NO

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

C1	Allen, E.E., et al., "Monounsaturated but Not Polyunsaturated Fatty Acids Are Required for Growth of the Deep-Sea Bacterium <i>Photobacterium profundum</i> SS9 at High Pressure and Low Temperature", <i>Appl. And Env. Microbiol.</i> , 65 (4):1710-1720 (1999)
C2	Kendrick, A. & Ratledge, C., "Lipids of Selected Molds Grown for Production of n-3 and n-6 Polyunsaturated Fatty Acids", <i>LIPIDS</i> , 27 (1):15-20 (1992)
C3	Knutzon, D.S., et al., "Identification of 5-Desaturase from <i>Mortierella Alpina</i> by Heterologous Expression in Bakers' Yeast and Canola", <i>J. Biol. Chem.</i> , 273 (45):29360-29366 (1998)
C4	Huang, Y-S., et al., "Cloning of 12- and 6-Desaturases from <i>Mortierella alpina</i> and Recombinant Production of γ -Linolenic Acid in <i>Saccharomyces cerevisiae</i> ", <i>Lipids</i> , 34 (7):649-659 (1999)
C5	Metz, J.G., "Production of Polyunsaturated Fatty Acids by Polyketide Synthases in Both Prokaryotes and Eukaryotes", <i>Science</i> , 293 :290-293 (2001)
C6	Morita, N., et al., "Cloning and sequencing of clustered genes involved in fatty acid biosynthesis from the docosahexaenoic acid-producing bacterium, <i>Vibrio marinus</i> strain MP-1", <i>Biotechnology Letters</i> , 21 :641-646 (1999)
C7	Parker-Barnes, J. M., et al., "Identification and characterization of an enzyme involved in the elongation of n-6 and n-3 polyunsaturated fatty acids", <i>PNAS</i> , 97 (15):8284-8289 (2000)
C8	Qiu, X., et al., "Identification of a 4 Fatty Acid Desaturase from <i>Thraustochytrium</i> sp. Involved in the Biosynthesis of Docosahexanoic Acid by Heterologous Expression in <i>Saccharomyces cerevisiae</i> and <i>Brassica juncea</i> ", <i>J. Biol. Chem.</i> , 276 (34):31561-31566 (2001)
C9	Tanaka, M., et al., "Isolation of clustered genes that are notably homologous to the eicosapentaenoic acid biosynthesis gene cluster from the docosahexaenoic acid-producing bacterium <i>Vibrio marinus</i> strain MP-1", <i>Biotechnol. Ltrs.</i> , 21 :939-945 (1999)
C10	Watanabe, K., et al., "Fatty Acid Synthesis of an Eicosapentaenoic Acid-Producing Bacterium: De Novo Synthesis, Chain Elongation, and Desaturation Systems", <i>J. Biochem.</i> , 122 (2):467-473 (1997)
C11	Yazawa, K., "Production of Eicosapentaenoic Acid from Marine Bacteria", <i>Lipids</i> , 31 (Suppl):S297-S300 (1996)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449)